



Gulf of Mexico Harmful Algal Bloom Bulletin

25 July 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: July 21, 2005

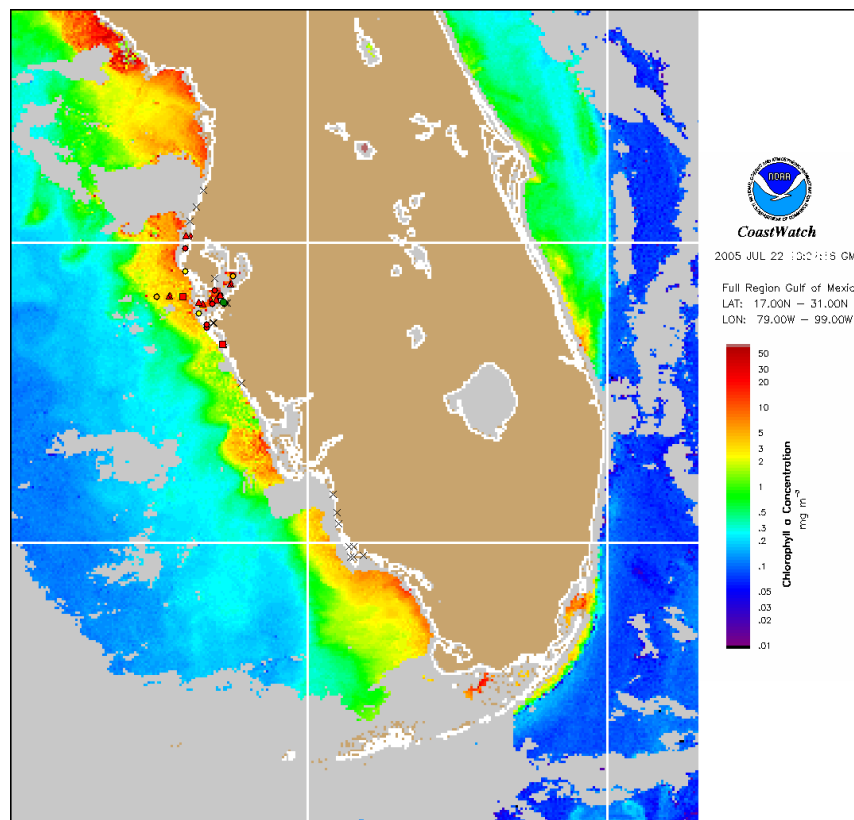
Analysis: A harmful algal bloom has been identified from northern Pinellas to northern Sarasota County. In northern Pinellas County, patchy low impacts are possible today and Thursday, with patchy moderate impacts possible tomorrow and Wednesday. In southern Pinellas and northern Sarasota Counties, patchy moderate impacts are possible today and Thursday, with patchy high impacts possible tomorrow and Wednesday. In Manatee County, patchy very low impacts are possible today and Thursday, with patchy low impacts possible tomorrow and Wednesday.

Analysis: Recent imagery has been partially obscured by clouds. Samples from last week had high concentrations of *K. brevis* off of Pinellas County and Sarasota Counties. Imagery from July 24 indicates a chlorophyll concentration $>15 \mu\text{g/L}$ west of Tampa Bay at $27^{\circ}36'N$, $82^{\circ}49'W$. Fish kills were reported last week off of Sarasota and Pinellas, as well as in Tampa Bay. There was a report of dead fish offshore of Citrus County last week. There is no sampling data available for Citrus County, but *K. brevis* was not present in samples from Hudson and New Port Richey in Pasco County. Sampling is recommended. Reports of discolored water and onshore transport of dead fish are possible through Thursday.

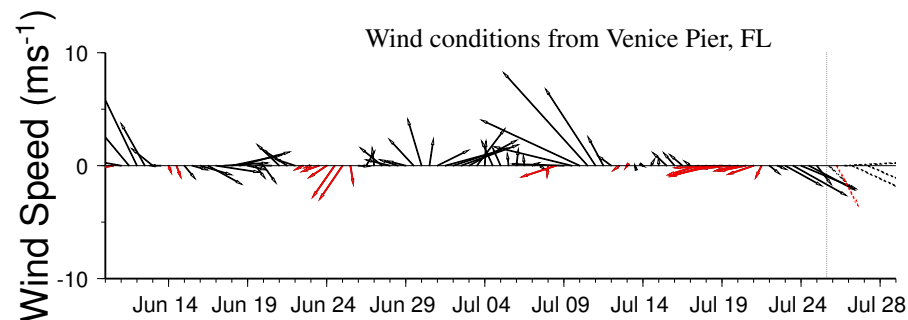
Bronder, Stolz

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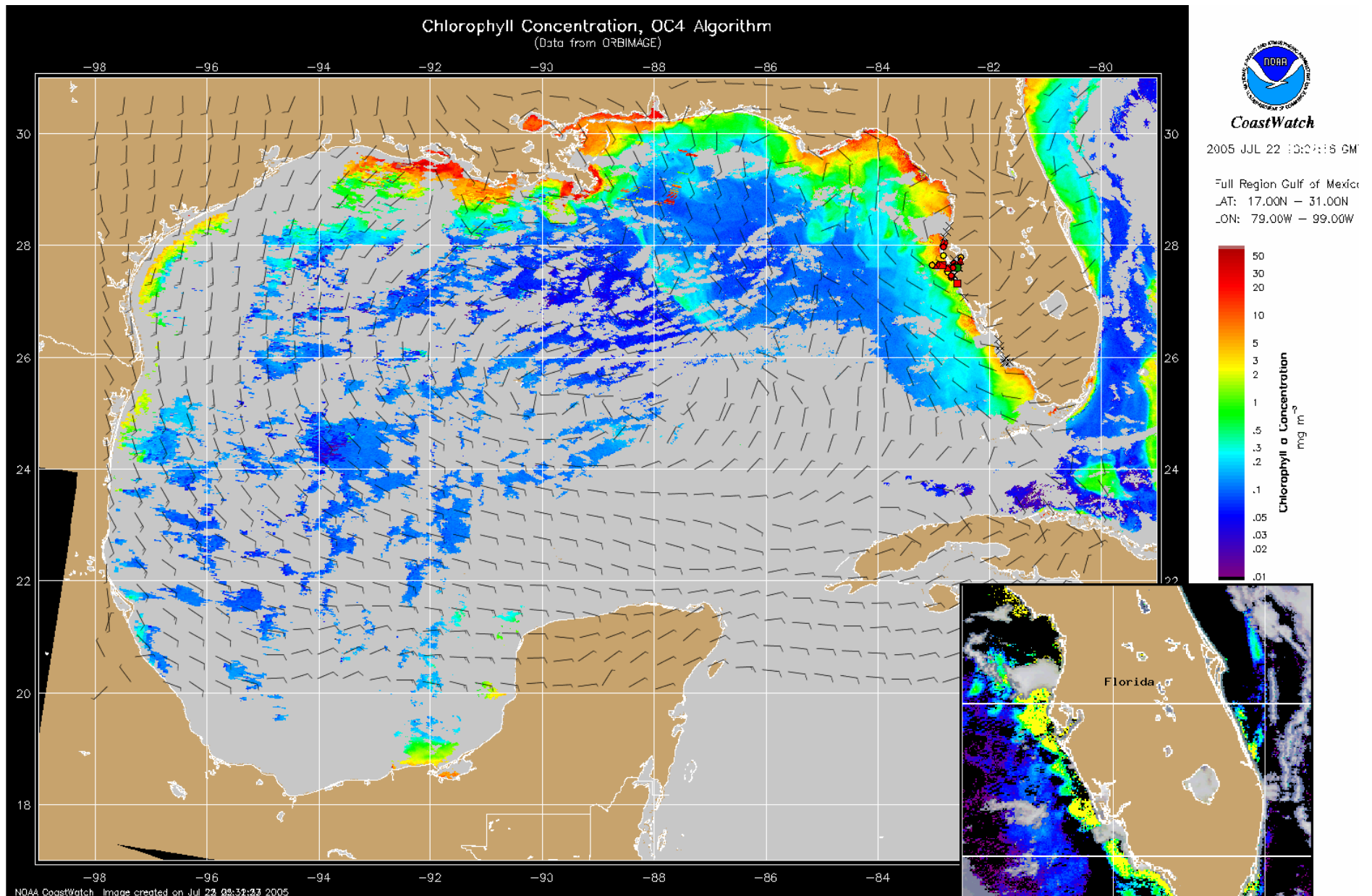


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from July 22, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Winds will be north (10 kts, 5 m/s) today, west (5-10 kts, 3-5 m/s) this afternoon through Wednesday, and southwest (5 kts, 3 m/s) Thursday.



Chlorophyll concentration from satellite and forecast winds for July 26, 2005 12Z with cell concentration sampling data from July 22, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)

Wind conditions from Egmont Key, FL

